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AP	PLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/600,278	06/20/2003	Carlo Licata		6350
	32301 7	7590 03/16/2005	EXAMINER		
	CATALYST LAW GROUP, APC 4330 LA JOLLA VILLAGE DRIVE SUITE 220			BARRY, CHESTER T	
	SAN DIEGO,		SOITE 220	ART UNIT	PAPER NUMBER
	ŕ			1724	
				DATE MAILED: 02/16/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/600,278	LICATA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Chester T. Barry	1724			
Period fo	The MAILING DATE of this communication apported in Reply	pears on the cover sheet with the	correspondence address			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a repl of period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be t ly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron a, cause the application to become ABANDON	imely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)[🛛	Responsive to communication(s) filed on 20 J	une 2003				
2a)□	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-98 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-98 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
10)⊠	 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 20 June 2003 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority (ınder 35 U.S.C. § 119					
12)□ a)i	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	is have been received. Is have been received in Applicative documents have been received in Received (PCT Rule 17.2(a)).	tion No red in this National Stage			
Attachmen	t(s)					
2) 🔲 Notic 3) 🔯 Infori	re of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 17/05 10/23/05	4) Interview Summar Paper No(s)/Mail E 5) Notice of Informal 6) Other:				

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Claims 1 – 15, 17, 21, 23, 24, 26, 29, 32, 35-47 are rejected under 35 USC Sec. 102(b) as anticipated by OTTENHEYM.

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USP 3931002 to OTTENHEYM et al. describes a method of removing a heavy metal from a composition, comprising: (a) providing a fibrous protein fiber, e.g., keratin col 2 line 5 / belly wool col 2 line 44; (b) agitating the fibrous protein fiber, col 2 line 54; (c) making a slurry of the agitated fibrous protein fiber, col 2 line 54; (d) contacting the agitated fibrous protein fiber slurry with a composition containing a heavy metal ion or a heavy metal ion complex, "solution to be treated" containing mercury col 2 lines 47, 53-54; and (e) filtering a supernatant produced in step (d), e.g., by passing the slurry through a bed of treated wool, Examples I – III, to remove the heavy metal from the composition bound to fibrous protein in the supernatant. Per claims 4-7, chicken feathers are taught at col 5 line 6. Per claim 14, a chloro gold complex is taught at col 4 line 48. Per at least claims 23, 24, 26, "stirring" (col 2 line 54) is a form of mechanical mixing. Per claims 29, 32, the pH of the solution is alkaline, e.g., pH = 7.5 col 4 line 58.

Per claims 15, 17, the concentration of fibrous protein in the slurry is 50000 mg per 5000 mL, or 10 mg / mL. See Example I.

Per claims 35 – 38, the reference teaches contacting the metal-laden liquid with the treated wool at ambient pressure, so the pressue is less than 10 psi. The contact temperature is about 45 C (Example I).

Per claims 39 – 44, the concentration of metal is about 3 ppm. Col 4 line 40. See also col 4 line 3.

Per claims 45-47, reduction of eh wool is taught before contacting the wool with the metal-laden solution.

Claims 1, 18 - 20, 29 - 34, 52 - 67 are rejected under 35 USC Sec. 103(a) as obvious over OTTENHEYM. The ref. teaches that an optimum pH exists and that it depends on the metal removed. Col 3 line 66. It would have been obvious, therefore, to have varied the pH, a known result-effective processing variable, to optimize the processing conditions. Per claims 18 – 20, the reference teaches use of finely divided fibrous material in the beds (col 5 line 9). It would have been obvious, therefore, to have use fibrous materials that fall within the claimed ranges because such sized materials would be described as "finely divided."

Claims 68 – 98 are allowable over the prior art.

Claims 1-98 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-29 of U.S. Patent No. 6685838 taken in view of OTTENHEYM. Although the conflicting claims are not identical, they are not patentably distinct from each other because optimization of pH, fiber size,

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pressure, and selection of heavy metal contaminant are known result-effective variables, as shown by OTTENHEYM. This rejection may be overcome by the filing of an appropriate terminal disclaimer.

CHESTER T. BARRY PRIMARY EXAMINER

571-272-1152